

Make The Change To

Quality specify
SANT



**Engineers
Manufacturers
Traders**

**PRODUCT CATALOGUE
2006**

COMPANY PROFILE

We wish to introduce ourselves as the leading manufactures of Control Valves, Strainers & Boilers for HVAC/ Industrial system and having experience since 1969 in the field of HVAC/ Industrial Flow controls, Straining & Thermic Systems.

From its inception in 1969 Sant Industries has demonstrated its ability to produce the finest product for any market of HVAC/ Industrial it enters. Its experience management team and loyal employees possess a rich heritage of expertise and versatility providing great value to our customers and prospects.

Having headquarters in New Delhi, (India) with its following main wings :-

- **Sant Industrial Control Private Limited.**
- **Sant Sales India.**

Company is engaged in manufacturing wide range of (S.I.) brand Industrial Control valves, Ball valves, Balancing valves, Butterfly valves, Check valves, 3-way mixing/diverting valves, 2 & 3 way water solenoid valves, Refrigerant Line Globe valves, Air/Water flow switches, Float switches, All types of strainers, Sediment Removal Separator, Hot water Generators, Humidifiers, etc. The company is a well spread marketing network across the country, offering latest design and maintains a firm commitment to quality in the design and manufacture of all its products. Company places the same emphasis on long term responsive customer support. Company provides engineering and design facilities dedicated to solving complex manufacturing and application problems. Company is headed by educated scientific experts and assisted by computer engineers who are responsible for meeting the fastest changes of the global requirement and the challenges of its competitors. The company is well equipped with up-to-date sophisticated machinery, manpower and combines modern manufacturing techniques, highly efficient production facility and skilled personnel to provide continued dependability in producing quality products "On-Time".

SANT products are confirmed to various National & International Standards and have been approved and accepted by leading HVAC Consultants, Contractors and Govt., as well as Private Organizations. Company is fully equipped in Research & Designing, Development, Production, Testing and Inspection Facilities to meet all National & International testing procedures.

COMPANY MISSION

SANT INDUSTRIAL CONTROL PVT. LTD. mission is to deliver quality and result oriented service to out esteemed clients. Sant has always taken care of providing upmost satisfaction to its valued clients. To achieve our mission we have a qualified & well experienced staff to deliver the result.

SANT's mission is to meet Unmatched quality of products, customer satisfaction, completion within stipulated time. Maintaining commitment and harmony with clients. To be reputed, profitable and growth oriented company employing people who take pride in satisfying customers.

QUALITY

QUALITY is a basic business strategy at SANT.

SANT maintains a firm commitment to quality in the design and manufacture of all its products. **SANT** places the same emphasis on long-term, responsive customer support. Only 100% conformance to customer requirements is acceptable. Our goal is quality leader-ship in the Air-conditioning and Refrigeration industrial controls by actively involved our employees at all levels and disciplines to our suppliers, in the commitment to excellence and never-ending improvement.

Our goal is quality leadership in the manufacturing of Industrial Control Valves and Strainers for Air-conditioning and Refrigeration central plants, Power Plants, Oil Industries etc.

Certificate of Quality System Assessment

AQA International, LLC, a provider of ISO 9000/Q9000
third party quality system registrations and accredited by the
American National Accreditation Program for
Registrars of Quality Systems, ANSI-RAB, attests that:

Sant Industrial Controls Pvt. Ltd.

(A Division of Sant Industries)

Block "A" - 94/1,
Sudershan Park, Moti Nagar,
New Delhi - 110015.

with a scope of :

Manufacture of Industrial Valves and Strainers

(Eg. Ball Valves, Balancing Valves, Butterfly Valves, Check Valves, 3-Way Mixing / Diverting Valves, Globe Valves,
2 & 3 - Way Solenoid Valves, Air & Water Flow Switches, Pot & Y-Type Strainers, etc.)

**has established a quality management system that is in compliance
with the International Quality System Standard ISO 9001 and Q9001 - 2000.**

*"Further clarifications regarding the scope of this certificate and the applicability of
ISO 9001:2000 requirements may be obtained by consulting the organization."*

December 7, 2005

Registration Date

3178

Certificate No.

December 7, 2010

Registration Period Ending

President, AQA International



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Columbia, South Carolina 29201
(803) 779-8150

Accredited by
Member of the
IAP M.E.A. for
QMS



BALANCING VALVES FOR SYSTEM BALANCING ▼

SERIES : SI/1021/15 - 400

GENERAL : The primary purpose of SANT Balancing Valve is to overcome the frictional resistance of the flow of water and effectively balance the distribution to each of the multi-circuits in the System.

FEATURES :

- Flow Measurement Orifice Double Regulating Valve (VODR).
- These Balancing Valves can also be used for Tight Shut-Off or for Regulating flow. Low Head-Loss and retains a high level of authority.
- These Balancing Valves have been designed for constant Trouble Free service & easy Operation.
- The Valve can be rendered "Temper Proof" with Stem Locking system.
- Tight closure of the Valve is assured by use of Neoprene / Silicon / Teflon seat insert.
- The Valve incorporating Two Pressure Test Valves which can be connected to a suitable Manometer to measure the Head Loss / Differential Pressure across the Valve.

CONSTRUCTION FEATURES :

These valves with complete balancing system. Available in Gun-metal / Bronze / Cast Steel from sizes (15mm) 1/2" NB to (80mm) 3" NB screwed end connection in 'Y' pattern Globe Valve body with or without pressure test valve cocks. The pressure test valves cocks are provided to permit flow measurement, regulation & isolation. Their primary application is in injection or other circuits requiring a double regulating valve for system balancing. Also available in Cast Iron / Cast Steel construction from (50mm) 2" NB to (400mm) 16" NB. Flanged end connection in standard 'H' pattern having a characterised throttling disc with sufficient authority to regulate flow in circuits incorporating a flow measurement valve. These valves have a unique device which enable the disc to be locked in position with a stem locking system provided to control flow at a pre-determined rate.

The Linkage with positioner indicator embraces a Vernier Scale for accurate setting while opening or closing of a valve position at a pre-determined rate.

AVAILABLE SIZE :

These Balancing Valves are available in PN-16 rating from 15mm to 400mm NB.

NOTE : INTRODUCING AUTOMATIC BALANCING VALVES

BALL VALVES ▼

SERIES : SI/1010/12 - 100

GENERAL : SANT Ball Valves are manufactured from Brass Die Casted / Bronze Casted bodies in various sizes, pressure rating and available in Two different models, With & Without Strainer.

FEATURES :

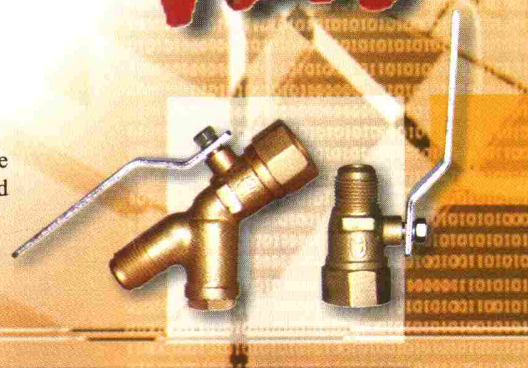
- Ball Valves are supplied With & Without Strainers with Steel Handle for easy and maintenance free operations.
- These Ball Valves provide Constant Total Flow through-out full opening.
- No Pressure Drop.

CONSTRUCTION FEATURES :

Brass Die Casted Body, Internal Parts & Hot Pressed Brass Ball, with Teflon seals & 'O' rings around the neck of the Ball suitable for most applications and possess outstanding resistance to heat and recommended for use upto 16 BAR Maximum Working Pressure.

AVAILABLE SIZE :

Ball Valves are available from 12mm to 150mm NB



▼ CHECK VALVES FOR SHOCK - PROOF PIPING SYSTEM

SERIES : SI/1022/50-300 (Flanged End Connection)

GENERAL : These Check Valves are engineered for Silent Operation / Combination of Non-Slamming characteristics and low Head-Loss with specially designed Valve Disc to travel in Linear motion.

FEATURES

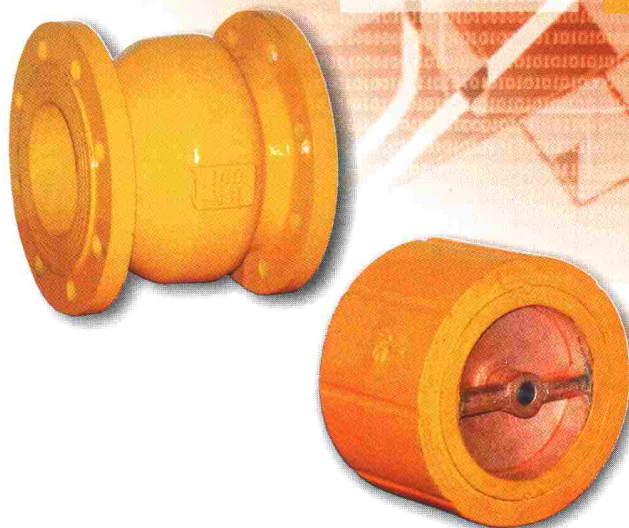
- Double Guided Disc.
- Large Bearing Surface.
- Easily Replaceable Parts.
- Functions Equally Well in all Positions.
- Drop Tight Seating.
- Low Head Loss followed with Low Energy Loss

CONSTRUCTION FEATURES :

Cast Iron Body with C.I. / Bronze or S.S. Internal Parts

AVAILABLE SIZE :

Check Valves are available Both in Flanged Type & Wafer Types in (ANSI Class - 125 or Class 250) from 50mm to 300mm NB.



DUAL PLATE - CHECK VALVES ▼

SERIES : SI/1023/50-500 (Water Type)

FEATURES :

- Shortest Feasible Face to Face Dimension.
- Light Weight, Space saving Wafer design.
- Simple Flange supported Installation.
- Drop Tight Seating.
- Function Equally Well in all Positions.

CONSTRUCTION FEATURES :

Cast Iron Body with C.I. / Bronze or S.S. Internal Parts



AVAILABLE SIZE :

Check Valves are available from 50mm to 300mm NB.



▼ STRAINER TYPE - FOOT VALVES

SERIES : SI/1024/50-300 (Flanged End Connection)

GENERAL : The General Design of the Foot Valve evolved through a need for a valve that could provide positive sealing action at various pressure ranges without seal damage along with silent operation.

FEATURES :

- Full Flow area, equal to pipe size at all points through Valve.
- Unique Seating design, provides positive shut-off at all pressure ranges without additional loading on the seat.
- Heavy Duty Stainless Steel Screening, with flow 3 to 4 Times that of pipe area.
- Silent operation, by design of disc stroke and linear closing Characteristics.

CONSTRUCTION FEATURES :

Cast Iron Body with Stainless Steel Screening Part.

AVAILABLE SIZE :

Check Valves are available from 50mm to 300mm NB.

▼ 'Y' - TYPE STRAINERS

SERIES : SI/1006 & PN-16/15-600

GENERAL : Sant 'Y' - Type Strainers are manufactured in a wide variety of material, sizes, pressure rating and types to meet specific requirement of Straining purpose in HVAC, Petro-Chemical, Agriculture, etc.

FEATURES :

- High capacity flow throughout full size in-let / out-let connections with large flow filtration area to minimize Pressure Drop and screen chocking problems.
- The cover is connected to the body with Nuts & Studs and the filter screen is readily accessible and easily exchangeable.

APPLICATIONS :

These Strainers are used in application for Industrial use and are provided with most modern design and construction, in accordance with the latest requirement of National & International standards. These Strainers are recommended for most types Industrial Applications, ideal for HVAC & R systems, Petro-Chemicals, Textiles, Agriculture, Power Plant etc.

CONSTRUCTION FEATURES :

Body available In Cast Bronze / Cast Iron / Mild Steel / Stainless Steel with Brass / Bronze / Stainless Steel Filter Screen.

AVAILABLE SIZE :

'Y' - Type Strainers are available from 15mm upto 65mm in Screwed end connections & from 20mm upto 600mm in Flanged end connection.

POT OR BUCKET STRAINERS ▼

SERIES : SI/1001 / H & PN-16/40-800

GENERAL : Sant Pot or Bucket Strainers are manufactured in a wide variety of material, sizes, pressure rating and types to meet specific requirement of Straining purpose in HVAC, Petro-Chemical, Agriculture, Power Plant, etc.

FEATURES:

- These Strainers are recommended where extra flow capacity and more filtration area is required.
- These Strainers are well designed to Generous Radii with ample wall thickness which secures high safety to the rated service and additional reinforcement to strains in piping.
- These Strainers are Fabricated / Manufactured according to required Pressure Rating / Temperature. (Rating ANSI 200 # 300 # 400).

APPLICATIONS :

These Strainers perform similar applications and straining purpose as 'Y' Type Strainers do. These Strainers are recommended for most types of Industrial Applications ideal for HVAC Systems, Hotels, Hospitals, Petrochemicals, Textiles, Pharmaceuticals Industries, Power Plants, etc.

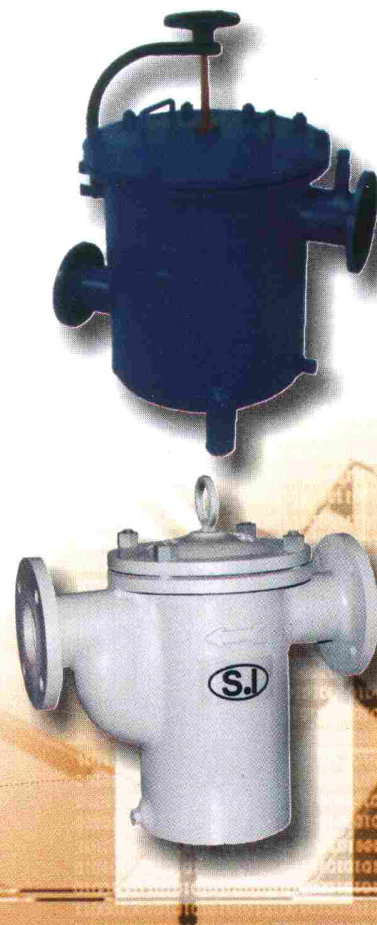
CONSTRUCTION FEATURES

Body available In Mild Steel & Stainless Steel with Brass / Bronze / Stainless Steel Filter Screen.

AVAILABLE SIZE :

Pot or Bucket Strainers are available from 40mm upto 800mm in Flanged end connection only.

INTRODUCING : SEDIMENT REMOVING SEPARATOR.



REFRIGERANT LINE ANGLE & - GLOBE VALVES ▼

SERIES : SI/1009/16-100 (Solder End Connection)

GENERAL : The most important feature of Sant Globe Valve is to minimize Pressure Drop and steam lines flow to help obtain the maximum capacity out of modern high performance Refrigeration & Air-Conditioning System and other Industries. These Valves are recommended where Tight closure and frequent operations are required.

FEATURES :

- High Capacity Flow Throughout Full size ports and large flow chambers, insure minimum Pressure Drop and maximum Flow.
- Heavy Wall Cored Forged Body and Bonnet provides additional strength and greater flow.
- Body & Bonnet fully retained gasket.
- Top Quality is controlled by constant Testing during all phases of production followed by 100% Testing for Body, Bonnet & Seat Tightness.
- Peak Performance is assured through the use of thoroughly proven Teflon material resulting in Valve seat tightness.

APPLICATIONS :

Recommended for Hot Gases, Central Heating & Air-Conditioning Refrigeration System, Oil Brine, Steam, Liquidated Petroleum Gases, etc. (Excluding Ammonia Gases)

CONSTRUCTION FEATURES :

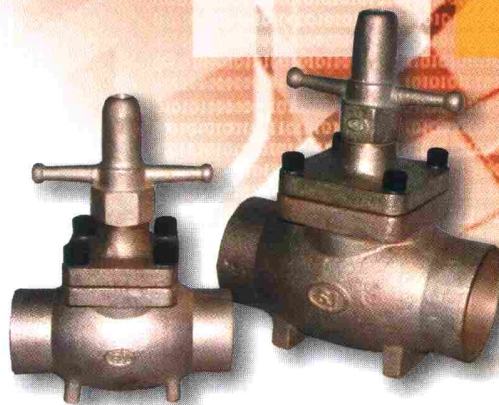
Available In Cast Bronze and die cast brass body with Brass / S.S. Trims.

TEMPERATURE & PRESSURE RATING :

The improved series of these Globe Valves with special Teflon packing & Teflon seat inserts permit to use in service Temperature as high 375° F, and maximum working pressure upto 400 psig.

AVAILABLE SIZE :

Globe Valves are available from 16mm to 150mm NB Solder Connection.



▼ WATER LINE - GLOBE VALVES

SERIES : SI/1014 GV/15-300

GENERAL : SANT Waterline Globe Valves are engineered to minimize Pressure Drop and streamline flow to help obtain the maximum capacity and high performance in controlling industrial water process system.

FEATURES

- These Globe Valves can be used for Tight shut-off or for regulating flow. Low Head-Loss and retains a high level of authority.
- Valves have been designed for constant trouble free service & easy operation.
- Valves are also provided with Linkage Positioner to know position of seat of the valve opening or closing.

CONSTRUCTION FEATURES

Available in Both Cast Bronze & Cast Iron Body with Bronze / Stainless Steel Internal Parts, in Scrwed End from 15mm to 50mm & Flanged End from 25mm to 300mm NB.

AVAILABLE SIZE :

Valves are available from 15mm to 300mm NB.



▼ SOLENOID VALVES

SERIES : SI/1015/12-300 (2 Way & 3 Way)

GENERAL : The Primary purpose of an Electrically Operated Solenoid Valve is to control automatically the flow of Fluids, Liquid or Gasses. SANT Solenoid Valves may be applied on wide variety of applications.

FEATURES :

- High capacity flow through-out full size port and large flow chambers insure minimum Pressure Drop.
- Specially Designed High Temperature Coil, 180-240 Volts, 50-60 cycles, 6-10 Watt Rating is used.
- Fully Retained Gasket for sealing Body & Bonnet.
- Top Quality is controlled by constant testing during all phases of production followed by 100% testing of Body and seat tightness. Electrical characteristics & Valve operation.

CONSTRUCTION FEATURES :

Available in Cast Bronze and Cast Iron Body with Brass / S.S. Trims.

AVAILABLE SIZE :

Solenoid Valves are available in Screwed end connection from 12mm upto 50mm and also available in Flanged end connection from 20mm upto 200mm NB.



MIXING / DIVERTING VALVES ▼

SERIES : SI/1014/15-300

GENERAL : SANT Mixing/Diverting Valves provides Proportional or Two Position control of Hot or Cold water in Heating or Cooling systems. They can be used for Mixing Service or divert flow to bypass heating or cooling coils.

FEATURES :

- Direct or Reverse Acting.
- Stainless Steel Stem, Bronze Plug & Replaceable Bronze seat.
- Spring loaded, Self adjusting Teflon Packing.
- Constant Total Flow through out Full plug Travel.
- Linear Flow characteristics for each port.

CONSTRUCTION FEATURES :

Available in Both Cast Bronze & Cast Iron Body with Bronze / Stainless Steel Internal Parts, in Screwed End from 15mm to 50mm & Flanged End from 25mm to 300mm NB

AVAILABLE SIZE :

Valves are available from 15mm to 300mm NB.



MANUALLY OPERATED - MIXING / DIVERTING VALVES ▼

SERIES : SI/1014 M/15-300

GENERAL : SANT Manually Operated Mixing / Diverting Valves perform the same function in water pipe line that Motorised Valves do and provide proportional or Two position control of Hot or Cold water in Heating or Cooling System.

FEATURES :

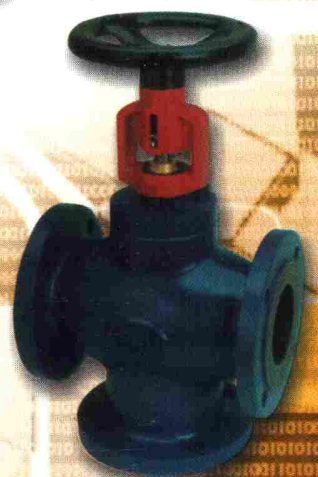
- For Mixing Services - These Valves require No Actuator or Thermostat. To achieve and maintain the desired ambient conditions. This can be obtained by turning the Hand Wheel to Clockwise or Anti Clockwise direction as per requirement.
- For Diverting Services - These Valves are used to By-Pass Cold or Hot water as per required conditions.

CONSTRUCTION FEATURES :

Available in Both Cast Bronze & Cast Iron Body with Bronze / Stainless Steel Internal Parts, in Screwed End from 15mm to 50mm & Flanged End from 25mm to 300mm NB.

AVAILABLE SIZE :

Valves are available from 15mm to 300mm NB.



HOT WATER GENERATORS ▼

SERIES : SI/1040

GENERAL: SANT Hot Water Generators are manufactured in a wide variety of required specifications, Temperature Rating & different types to meet specific requirement of Heating application in various fields. Available in vertical & horizontal type, Electrically as well as Oil Fired operational.

APPLICATIONS :

Hot Water Generators are used for Heating applications in HVAC, Hospitals, Laundries, Chemical Industries, Textile Industries, Pharmaceuticals, etc.

CONSTRUCTION FEATURES :

Hot Water Generator's Body is fabricated out of heavy duty rolled M.S. Sheet / S.S. construction as per required sizes, Temperature & Pressure rating. The body is well designed of generous radii with ample wall thickness which ensure high safety to the rated service & additional reinforcement to withstand heating as well as pressure rating. Top cover is bolted to the body with fully retained gasket, flange type immersion heaters are fitted to the cover with bolts and are easily exchangeable. Hot Water Generator's body is provided with in-let and out-let connections. Body is fully insulated with glass wool and clad with aluminium sheet to prevent heat loss. The body of the Hot Water Generator is installed on a solid frame fabricated out of M.S. channel & angles. All sides are covered with panel type enclosure and having in-built electrical panel, which is fully equipped with standard electrical accessories & safety features like :-

- MCCB / SFU with copper Bus Bar.
- Digital Step type Electronic Thermostat & Thermometer.
- Low level cut-off float switch with alarm.
- Step type light Indicator.
- Emergency cut-off switch.
- Main door switch.
- Voltmeter & Ammeter.
- Push buttons.
- Pressure Relief valve.
- Automatic Air-vent valve.
- Make-up / Drain connection Bronze Ball valve.

AVAILABLE CAPACITY:

Hot Water Generators are available from 20 kw upto 500 kw Capacity.



▼ STEAM GENERATORS / HUMIDIFIERS

SERIES : SI/1035

GENERAL : SANT Electrically operated Humidifiers for Environmental control are manufactured in a wide variety of required specifications, Temperature Rating & different types to meet specific requirement of Humidifying application in HVAC systems. Available in Vertical Type & Electrically Operated Only.

APPLICATIONS :

Humidifiers are used for Humidifying applications in HVAC Industry, Hospitals, Pharmaceuticals, Paper Processing Industries, etc.

CONSTRUCTION FEATURES :

Steam Generators & Humidifiers are available in Mild Steel & Stainless Steel Body and Insulated with 50mm thick Fiber Glass Wool / Rock Wool and Clad with Aluminium sheet. Complete with Electronic Controls, Fully Automatic with Safety Features.

AVAILABLE CAPACITY :

Steam Generator & Humidifiers are available from 2 kw upto 50 kw Capacity.



▼ WATER FLOW SWITCHES



SERIES : SI/1015

GENERAL : SANT Water Flow Switches are compact in design for service on water line principally. has Single Pole Double throw switch - can be used to make one circuit, break a second, when Flow or No-Flow occurs.

APPLICATIONS :

These Flow Switches offer a dependable way to make or break an electrical circuit when flow in a pipeline starts or stops. Compact in size, they serve to make operation safer or more automatic in HVAC Systems and in processing work. ie. Signal Devices, Motors, Alarms, Metering Devices, Heating Units, etc.

CONSTRUCTION FEATURES :

Water Flow Switch Model No : 1015, Body is manufactured from Die Casted Brass with moulded bottom and Aluminium Top Enclosure having a single SPDT Switch. Wetted parts are of Brass, Stainless Steel & Bronze. Individual paddles are adaptable for pipe 1" to 3" NPT, an extended paddle for larger pipe is also included. Standard size is 1" NPT threaded connection.

AVAILABLE SIZES :

Water Flow Switches are available only in 1" NPT .

AIR FLOW SWITCHES ▼

SERIES : SI/1015-AF

GENERAL : SANT Air Flow Switches sense air flow or flow failure by responding only to Velocity of air movement in the duct

APPLICATIONS : Air Flow Switches performs the same function in Air Ducts that Water Flow Switches do in Pipe Line. They make or break an Electrical Circuit. When air flow starts or stops, and can be used to control almost any types of electrically operated equipments, ie. Signal Lights, Alarm, Motors, Duct Heaters & Metering Devices. Air Flow Switches are suitable for most types of industrial applications including HVAC systems, Exhaust or Make-up systems.

CONSTRUCTION FEATURES :

Packless Construction, Die Casted Aluminium Body with moulded bottom and Aluminium Top Enclosure having SPDT Micro Switch and designed for medium and higher Velocity Systems. Sensitivity to air flow can be readily adjusted. The Switch Compartment is totally Isolated from the Duct. Standard Paddle fits in into 8" minimum duct as small as 6". The exposed parts inside of the Duct are made of Brass, Bronze, Stainless Steel & Teflon.

AVAILABLE SIZES :

Air Flow Switches are available only in One Standard Size.



PRODUCT AVAILABLE THROUGH OUT COUNTRY



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AN ISO 9001:2001 COMPANY



SANT INDUSTRIAL CONTROLS PVT. LTD.

Engineers, Manufacturers & Traders

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